

# MATLAB

**CAMPUS:** Feb 23 – Mar 10, 2016 | T,Th | 5:30 – 8:50 pm | C2316011E

**CAMPUS:** Jun 6 – 22, 2016 | M,W | 5:30 – 8:50 pm | C2316012E

In this class, you will be introduced to MATLAB as a beginner and quickly learn the fundamentals. MATLAB, MATric LABORatory, is a programming language and interactive environment used for numerical computations, programming, and data visualization. Often referred to as “The Language of Technical Computing,” MATLAB can be used to analyze data, develop algorithms, interface with other programming languages and create user interfaces and applications. MATLAB is also used for a range of other applications, including signal processing and communications, image and video processing, control systems, test and measurement, computational finance, and computational biology.

## Topics Covered:

- Navigate and use MATLAB as a calculator
- Perform technical computing
- Solve technical problems
- Work with data
- Scalars, vectors, matrices, strings and structures –  
What are they and how to use them
- File input/output – Read in data file, write out data file
- Interfacing MATLAB with Excel
- Present visual results via graphics and plotting
- Understand MATLAB’s Graphical User Interfaces (GUI’s)

*Prerequisites: Familiarity with basic computer operations, college mathematics, and basic engineering and physical principles. Exposure to programming in any language is helpful but not required.*

*\$995, 20 hours, 2.0 CEUs awarded for completion of course*

## About the Instructor:



**Brandon Stiltner** is a Senior Systems Analysis Engineer at the NASA Marshall Space Flight Center. He

has 8 years of experience working in many sectors of the aerospace industry. Brandon has extensively utilized MATLAB in each of these roles from aircraft design, to rocket trajectory simulations. Brandon holds B.S. and M.S. degrees in Aerospace Engineering from Virginia Tech.

## Contact Christina Holmes for more information:

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